

BIOCHEMICAL GENETICS

Vol. 31, Nos. 1/2, February 1993

CONTENTS

Polymorphism of Two Closely Linked Hexokinase Loci in the Grasshopper <i>Oxya japonica japonica</i> (Orthoptera: Acrididae: Oxyinae)	1
K. L. Chan and Y. Yushayati	
Carpine Blood Groups. I. The B System	7
D. M. Vankan and K. Bell	
Carpine Blood Groups. II. The C, G, H, I, J, K, L, N, and Q Systems	19
D. M. Vankan and K. Bell	
Chromosomal Effects on Peptidase Activities in <i>Drosophila melanogaster</i>	29
Kazuo Hiraizumi, Karen D. Mathes, and Christo I. Shalish	
The Origin and Genetic Differentiation of Native Breeds of Pigs in Southwest China: An Approach from Mitochondrial DNA Polymorphism	51
Hong Lan and Liming Shi	
A Correction for Allele Frequency Estimates Derived from Isofemale Lines	61
Anthony D. Long	
Identification of Three Wx Proteins in Wheat (<i>Triticum aestivum</i> L.)	75
T. Nakamura, M. Yamamori, H. Hirano, and S. Hidaka	
Microsatellite Variation in a Social Insect	87
Madhusudan Choudhary, Joan E. Strassmann, Carlos R. Solís, and David C. Queller	
Genetic Evidence for the Existence of Cryptic Species in the <i>Anopheles albitalis</i> Complex in Brazil: Isozymes and Mitochondrial DNA Restriction Fragment Length Polymorphisms	97
S. K. Narang, T. A. Klein, O. P. Perera, José Bento Lima, and Amazonia Toda Tang	

BIOCHEMICAL GENETICS

Vol. 31, Nos. 3/4, April 1993

CONTENTS

Long-Chain Fatty Acids and Ethanol Affect the Properties of Membranes in <i>Drosophila melanogaster</i> Larvae <i>Robert R. Miller, Jr., Amos O. Dare, Marcie L. Moore, Robert G. Kooser, and Billy W. Geer</i>	113
Identification, Characterization, and Comparison of RNA-Degrading Enzymes of Wheat and Barley <i>Yang Yen and P. Stephen Baenziger</i>	133
Polymorphism of Transferrin Found in the Laboratory Rat and Wild Rats in Japan <i>Masahiro Nagabuchi, Yoshi Kawamoto, Tetsu Nishikawa, and Masahiko Nishimura</i>	147
The <i>Gus-e</i> Locus Regulates Estrogen Repression of Androgen-Induced β -Glucuronidase Expression in Mouse Kidney <i>Gordon Watson, Rolf Jaussi, Dorothy Tabron, and Kenneth Paigen</i>	155
Malate Dehydrogenase (MDH; EC 1.1.1.37) Isozymes in Tissues and Callus Cultures of <i>Cereus peruvianus</i> (Cactaceae) <i>M. F. P. S. Machado, A. J. Prioli, and C. A. Mangolin</i>	167
Genetic Mapping and Protein Product Diversity of the Self-Incompatibility Locus in Wild Tomato (<i>Lycopersicon peruvianum</i>) <i>Robert Bernatzky</i>	173
A Comparison of Genetic Variation in Two Sibling Species Pairs of Haplodiploid Insects <i>Lene Rosenmeier and Laurence Packer</i>	185
Localization in the Fourth Linkage Group of a Gene <i>di</i> Affecting Diabetes Insipidus in Rats <i>Khegay Igor Ilyich and Golybjatnikova Anna Vladimirovna</i>	201
Announcement: International Conference on Animal Genetics	205

BIOCHEMICAL GENETICS

Vol. 31, Nos. 5/6, June 1993

CONTENTS

Altered Nucleosome Spacing Associated with Down Syndrome <i>Nicole H. Kahmann and A. V. Rake</i>	207
Linkage Between Complement Components 6 and 7 and Glutamic Pyruvate Transaminase in the Marsupial <i>Monodelphis domestica</i> <i>Roland A. H. van Oorschot, Virginia Birmingham, Patricia A. Porter, Candace M. Kammerer, and John L. VandeBerg</i>	215
Genetic Studies of Water Buffalo Blood Markers. I. Red Cell Acid Phosphatase, Albumin, Catalase, Red Cell α -Esterase-3, Group-Specific Component, and Protease Inhibitor <i>S. G. Tan, J. S. F. Barker, O. S. Selvaraj, T. K. Mukherjee, and Y. F. Wong</i>	223
Allozyme Variation in Stable Flies (Diptera: Muscidae) <i>E. S. Krafsur</i>	231
Nucleotide Sequence and Molecular Evolution of the Gene Coding for Glyceraldehyde-3-Phosphate Dehydrogenase in the Thermoacidophilic Archaeabacterium <i>Sulfolobus solfataricus</i> <i>Paolo Arcari, Antonio Dello Russo, Giuseppe Ianniciello, Monica Gallo, and Vincenzo Bocchini</i>	241
Identification of an Allelic Variant of Isoform MLC1-V/sB (Human Myosin Light Chain) <i>Alexei V. Laptev, Sergei S. Shishkin, Leonid I. Kovalyov, Marina A. Galyuk, Alexander Kh. Musolyamov, and Tsezi A. Egorov</i>	253



BIOCHEMICAL GENETICS

Vol. 31, Nos. 7/8, August 1993

CONTENTS

Effects of the Residue Adjacent to the Reactive Serine on the Substrate Interactions of <i>Drosophila</i> Esterase 6 <i>Mark A. Myers, Marion J. Healy, and John G. Oakeshott</i>	259
Esterase-30 (ES-30) of the House Mouse: Biochemical Characterization and Genetics of a New Carboxylesterase Isozyme Linked to Cluster-2 Loci on Chromosome 8 <i>Adam Ronai, Wolfgang Berning, Andreas Gaa, and Otto von Deimling</i>	279
Latitudinal Allozymic Variability in Natural Populations of <i>Zaprionus indianus</i> from India <i>J. P. Yadav and Ravi Parkash</i>	295
The Amino Acid Sequence of the Alpha Subunit of Mouse Salivary Androgen-Binding Protein (ABP), with a Comparison to the Partial Sequence of the Beta Subunit and to Other Ligand-Binding Proteins <i>Robert C. Karn and Rosemary Russell</i>	307
DNA Isolation by a Rapid Method from Human Blood Samples: Effects of MgCl ₂ , EDTA, Storage Time, and Temperature on DNA Yield and Quality <i>Debomoy K. Lahiri and Bill Schnabel</i>	321
A <i>Drosophila</i> Homologue of the <i>Schizosaccharomyces pombe</i> <i>act2</i> Gene <i>Christine Fyrberg and Eric Fyrberg</i>	329

BIOCHEMICAL GENETICS

Vol. 31, Nos. 9/10, October 1993

CONTENTS

Genetic Structure and Phyletic Relationships of Eastern Mediterranean <i>Bacillus atticus</i> Brunner (Insecta Phasmatodea): A Biochemical Study <i>Barbara Mantovani and Valerio Scali</i>	343
DNA Fingerprint Analysis of a Free-Range Koala Population <i>P. Timms, J. Kato, M. Maugeri, and N. White</i>	363
Sulfite Sensitivity and Sulfite Oxidase Activity in <i>Drosophila melanogaster</i> <i>Audrey C. Braaten and Michael M. Bentley</i>	375
A Novel Ancestral Protein of <i>Drosophila</i> Alcohol Dehydrogenase in <i>Streptomyces</i> ? <i>Astrid Freriksen and Pieter W. H. Heinstra</i>	393
Biochemical and Genetic Studies on Alkaline Phosphatase of <i>Ceratitis capitata</i> <i>Kostas Bourtzis, Vassilios J. Marmaras, and Antigone Zacharopoulou</i>	409
Regulation of Ammonium Ion Assimilation Enzymes in <i>Neurospora crassa</i> <i>nit-2</i> and <i>ms-5</i> Mutant Strains <i>Jorge Calderón and Luz María Martínez</i>	425
Four Polymorphic Markers on Rat Chromosome 12 Form a Single Linkage Group <i>Peter Mather, Ellen A. Goldmuntz, Hongbin Zha, Ying Du, Leslie J. Croftord, Ronald L. Wilder, and Elaine F. Remmers</i>	441
Genetic Structure of Natural Populations of <i>Dryas iulia</i> (Lepidoptera: Nymphalidae) Revealed by Enzyme Polymorphism and Mitochondrial DNA (mtDNA) Restriction Fragment Length Polymorphism (RFLP) <i>Karen Luisa Haag, Aldo Mellender de Araújo, and Arnaldo Zaha</i>	449

BIOCHEMICAL GENETICS

Vol. 31, Nos. 11/12, December 1993

CONTENTS

The Selection and Genetic Analysis of Esterase Electromorphs in an Organophosphate-Resistant Strain of <i>Culex pipiens</i> from Italy <i>A. Callaghan, J. Hemingway, and C. A. Malcolm</i>	459
Genomic Rearrangement of the α -Globin Gene Complex During Mammalian Evolution <i>Hong Tan and J. Barry Whitney III</i>	473
Different Expression of Calpain in Skeletal Muscle of Japanese Quail (<i>Coturnix coturnix japonica</i>) Lines Selected for Body Weight <i>Kotaro Kawabe, Yoshizane Maeda, Tatsuzo Oka, Shin Okamoto, and Tsutomu Hashiguchi</i>	485
Characterization of Mutation-Induced Changes in the Maize (<i>Zea mays L.</i>) ADH1-1S1108 Alcohol Dehydrogenase <i>John C. Osterman, Yungping Chiang, and John Markwell</i>	497
Distribution and Characterization of Mutations Induced by Nitrous Acid or Hydroxylamine in the Intron-Containing Thymidylate Synthase Gene of Bacteriophage T4 <i>Michael D. Brown, Christine M. Povinelli, and Dwight H. Hall</i>	507
The Relationship Between the <i>Pgi</i> Locus and the Ability to Fly at Low Temperatures in the Monarch Butterfly <i>Danaus plexippus</i> <i>J. M. Hughes and M. P. Zalucki</i>	521
Announcement	533
REFEREES FOR VOLUME 31	535
AUTHOR INDEX TO VOLUME 31	537
SUBJECT INDEX TO VOLUME 31	539
